Integration Work Sheet (IWS)

IW	S SP attached T	itle:			
	PART I ADMINISTRATIVE IN	NFORMATION (compl	eted by RI)		
Management Chain: Name of Responsible Individual (RI), Alternate RI, names of line managers between the RI and Authorizing Individual (AI), name of AI, name of the Authorizing Organization and title of AD					
Loc	ration Facility Room(s) FPOC	ES&H Team	Intended Start Date:		
			or to be determined Est. Completion Date:		
			or ongoing		
Em Nan	ployees (E) & Guests (G) assigned to this activity:	Name	E or G Employee #		
17602.	C EVI C Employee.	<u>Ivame</u>	Date Campington		
	PART II SCOPE OF WOR	RK & SP (completed	by RI)		
Sco	pe of Work: Describe the work activity, emphasizing the safety aspects	ts of the work (not the scie			
	or ☐ scope of work attached				
Saf	ety Plan (SP)—Is there a current SP (SP form or OSP or FSP) covering	or this work? \BYes- atta	eh#		
□N	ew SP needed—attach	SP not needed (see F	S&H Manual Doc 2.2 App. A)		
	P. ST. H. H. S. SDG/ENVIDONMENTAL	1 P. CONTEN	/ 1 - 11 nm		
110	PART III HAZARDS/ENVIRONMENTAL		, ,		
Haz	zards/Environmental Aspects and Controls: Check off the had Biological ☐ Infectious materials/other biohazards (pathogens, human f				
	☐ Sharps/ needles ☐ Human use experiments ☐ Lab animals ☐ Oth ☐ Other	her animals (wild, domesti	ic, insects) Toxic plants Food for humans		
	Chemical ☐ Flammable, volatile or fuming ☐ Toxic materials (acutely toxic, toxic, systemic toxin, toxic gasses) ☐ Corrosives /irritants ☐ Reactive materials (e.g., air/water sensitive; pyrophoric; thermally, shock, or friction sensitive; perchlorate) ☐ Carcinogens, mutagens, reproductive hazards ☐ Pesticides ☐ Beryllium ☐ Materials of special concern (e.g., alkali metals, fluorine, asbestos, lead, mercury, PCB) ☐ Other regulated metals (e.g., chromium, copper, nickel, zinc) ☐ Other				
	Construction/Equipment/Working Surfaces ☐ Construction, maintenance, modification, demolition ☐ Asbestos removal ☐ Safety system maintenance (deactivated alarms, interlock bypass) ☐ Drilling, excavation, grading ☐ Working on contaminated equipment				
	☐ Service, maintenance, or modification of de-energized equipment ☐ lift) ☐ Machine tools/powder-actuated tools ☐ Welding, soldering, the ☐ Pulleys, belts, gears, pinch points ☐ Walking/working on irregular s ☐ Other _	ermal cutting Stored p	potential energy Sharp edges/ shears		
	Discharges to Air ☐ Produces criteria pollutants (e.g., organics, NOx, organic				
	Discharges to Water/ Soil/ Groundwater ☐ Discharge of process water drain system ☐ Connection to retention tank, percolation pits ☐ Categ ☐ Other				
	Ecological and Cultural Resources ☐ Disturbance to soils, drainage c undisturbed area ☐ Work in area designated as having cultural resource ☐ Other				
	Electrical ☐ Batteries (short circuit >10 A or >50 V) ☐ Capacitors (> of electrical, or 2 or more sources of electrical power.) ☐ Energized electrical power.) ☐ Static electrical power.)	ectrical equipment (work oricity Hi-potential testi	on exposed, energized electrical equipment >50 V, 20 ing (>500 V)		
	Emergencies/Earthquakes/Fire ☐ Potentially unique emergency issue ☐ Other	es 🔲 Unique earthquake	safety issues Unique fire safety issues		
	Explosives/Firearms ☐ Explosives, high explosives, propellants, pyrot ☐ Other	technic or similar energeti	c material Mock explosive Firearms		
	Pressure/Noise/Hazardous Atmospheres ☐ Low Pressure systems <1 system >150 psig -gas or >1500 psig liquid ≥100 kJ stored energy ☐ Pr☐ Noise (> 85 dB) ☐ Confined spaces/ oxygen deficiency, asphyxiant ☐ Other	ressure systems containing	g hazardous fluids		

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Integration Work Sheet (IWS)

	PART III HAZARDS/ENVIRONMENTAL ASPECTS & CONTR	OLS (continued)
	Radiation- Ionizing/Non-Ionizing ☐ Radioactive material (encapsulated, non-encapsulated) ☐ Fis Doc 20.6 ES&H Manual ☐ Radiation-generating devices (RGD) (accelerator, x-ray machine, e-bean ☐ Non-ionizing radiation—class 3a — unattended or invisible, 3b, or 4 lasers, or intense UV, visible, c ☐ Electric/ magnetic fields < 3 kHz ☐ Radio frequency/microwaves sources > 3 kHz ☐ Other ☐	n, high voltage in a vacuum) or infrared illumination
	Remediation and Monitoring ☐ Grading or excavating in contaminated areas ☐ Movement of soi ☐ Other	il Disturbing contaminated groundwater
	Under Other Other Other	
	Temperature/Weather ☐ Extremely hot or cold surfaces, steam (burn hazard) ☐ Weather exposur lightning, temperature extremes) ☐ Exposure to intense sunlight ☐ Other	
	Transportation ☐ Hazardous material or waste transportation ☐ Radioactive material or waste transportation ☐ Use of vehicles (aircraft, ATV, boat) ☐ Off-road driving ☐ Other ☐ Oth	· · · · · · · · · · · · · · · · · · ·
	Waste ☐ Hazardous waste ☐ Radioactive waste ☐ Medical waste ☐ Mixed waste or other wast ☐ Solid wastes (> routine quantities) ☐ Material for recycling ☐ Other	
	Worker Capability/Motion ☐ Lifting manually >30 pounds ☐ Work involving repetitive motion ☐ Work after hours ☐ Work involving individuals <18 years of age ☐ Work requiring specific un ☐ Other	☐ Hand tools ☐ Work alone usual physical capabilities
	Other Hazards or environmental aspects not listed:	
Haz	nzard Description and Controls: Describe each hazard listed above and the specific controls: (equipment, etc.)	engineered controls, personal protective
Haz	zard Description Control	
Tra Nam	raining: List the required training and the individual requiring the training by name Employee # Course#	
	PART IV SITE LOCATION/DIRECTORATE ADDIT	TIONS
Site	te Location/Directorate-Specific Additions: Site location (e.g., S-300, NTS, off-site) or Directorate-Specific Additions:	ctorate-specific additions can be added here.
	PART V ES&H DOCUMENTS/PERMITS/APPROVALS MEDICA	L SURVEILLANCE
ES	S&H Documents / Permits / Approvals / Medical Surveillance: The following controls	s are required:
□ I	ES&H Documents needed: IWS only-(WAL B) IWS & Safety Plan- (IWS/SP-WAL C) CLNL Work Permits/Approvals:	
	Agency Work Permits/Approvals:	
	Medical Surveillance/Certification:	
	PART VI SIGNATURES	
As th	the RI, I have reviewed the hazards and agree to implement the controls identified in this IWS:	
Resp	sponsible Individual (RI):	te:
l '	e proposed work falls within the safety envelope of the facility/area and may commence once authorized: OC Concurrence	
	OC Concurrence (if required)	
I hav	we reviewed the hazards and controls for this work and concur that the work may commence once autho	orized:
Site	e Location/Directorate Specific Concurrence (if required)	te:
	e hazards and controls have been properly identified and the work may commence once authorized (Note uired for WAL B; ES&H Team concurrence is required for WAL C.)	: ES&H Team or designee concurrence is
ES&	&H Concurrence: Title: Da	te:
	proval: The controls have been confirmed and this proposed activity is authorized to proceed.	
Aut	thorizing Individual (AI)	te:

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Integration Work Sheet (IWS)

 $To \ be \ completed \ by \ the \ ES\&H \ Team \ or \ their \ Designee \ or \ the \ RI \ (Transfer \ information \ on \ the \ checked \ items \ to \ Part \ V \ of \ the \ IWS \ form)$

ES&H Documents:				
☐ IWS only needed (WAL B- ES&H Team or designee concurrence required)				
☐ IWS & Safety Plan (IWS/SP) needed (WAL C - ES&H Team concurrence required)				
Other ES&H Documents needed:				
☐ Safety Basis document update needed (e.g., USQ or other)				
☐ Engineering safety note needed				
□ NEPA document needed				
☐ Job Hazard Analysis needed (JHA)				
□ Other _				
Attach required documentation or list where the documents can be found:				
LLNL Permits/Approvals/Consultations/Reporting:				
☐ Building and/or equipment drain				
☐ Interior concrete floor, wall, and ceiling penetration				
☐ Asbestos permit				
☐ Confined space permit				
☐ Hot work				
Hazardous work permit (ES&H Manual Doc. 17.1 Sec. 3.18)				
Lead work				
Radiation work permit				
□ Roof access				
Soil excavation, grading, and/or drilling permit				
☐ CMID tag needed ☐ Radioactive waste				
☐ Radioactive waste ☐ Waste minimization analysis needed				
☐ Energy efficiency or water conservation analysis needed				
LINE Committee approval (committee name)				
Other:				
Agency Work Permits/Approvals:				
☐ Air permit/exemption ☐ NESHAP				
☐ Waste permit/exemption				
☐ Water discharge permit/exemption				
☐ Fish and Wildlife consultation				
Medical Surveillance/Certification:				
☐ Asbestos worker				
☐ Works with Biohazards				
☐ Works with Carcinogens ☐ Hazardous Waste worker				
☐ Hearing Conservation required				
☐ Hearing Conservation required ☐ Lead handler				
☐ Hearing Conservation required ☐ Lead handler ☐ Commercial Drivers License required				
☐ Hearing Conservation required ☐ Lead handler ☐ Commercial Drivers License required ☐ Crane Operator				
☐ Hearing Conservation required ☐ Lead handler ☐ Commercial Drivers License required ☐ Crane Operator ☐ Explosives worker				
☐ Hearing Conservation required ☐ Lead handler ☐ Commercial Drivers License required ☐ Crane Operator ☐ Explosives worker ☐ Firefighter				
☐ Hearing Conservation required ☐ Lead handler ☐ Commercial Drivers License required ☐ Crane Operator ☐ Explosives worker				
☐ Hearing Conservation required ☐ Lead handler ☐ Commercial Drivers License required ☐ Crane Operator ☐ Explosives worker ☐ Firefighter ☐ Laser Eye exposure potential ☐ Respirator required				
☐ Hearing Conservation required ☐ Lead handler ☐ Commercial Drivers License required ☐ Crane Operator ☐ Explosives worker ☐ Firefighter ☐ Laser Eye exposure potential				

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